

**The Knowledge Bank at The Ohio State University**  
**Ohio State Engineer**

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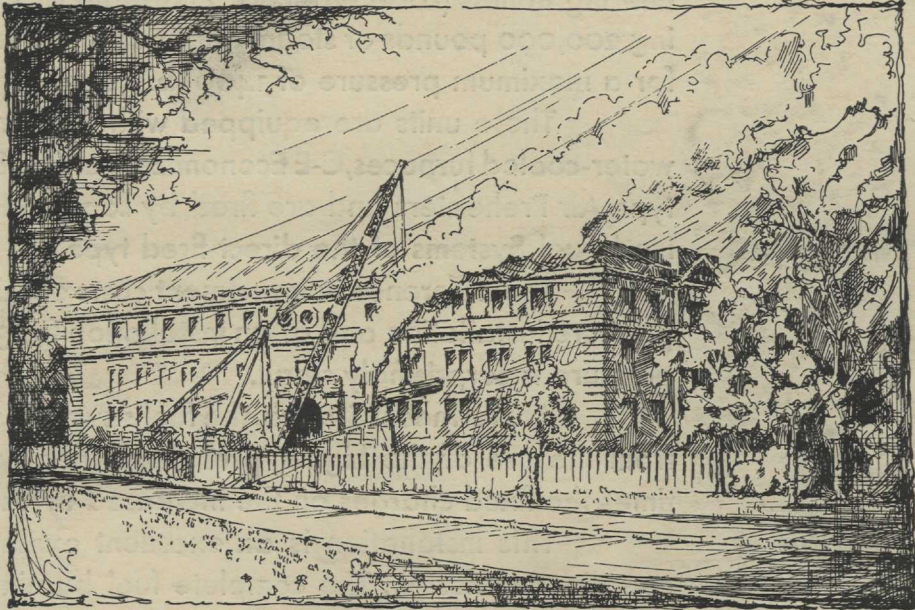
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# THE OHIO STATE ENGINEER



THE TRANSFORMATION

MEMBER OF ENGINEERING  
COLLEGE MAGAZINES ASSOCIATED

MAY  
1929  
V. 12 #7

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V. 12, no. 7  
May 1929  
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# 1400-pound pressure at Kansas City

At Northeast Station, the Kansas City Power & Light Company has installed two Combustion Engineering Boilers (Ladd type) each capable of delivering 200,000 pounds of steam per hour and designed for a maximum pressure of 1400 lb. gage.

These units are equipped with C-E Fin Tube water-cooled furnaces, C-E Economizers and C-E plate type Air Preheaters and are fired by Lopulco Pulverized Fuel Systems of the direct fired type.

The difference in investment costs of this high pressure installation and of an installation for 300 lb. pressure is surprisingly small.

At Northeast Station, the fuel saving resulting from the use of the higher pressure is nearly three times the fixed charges on the increased investment.

This installation is an excellent example of coordinated design. The complete fuel burning and steam generating equipment was sold and installed under one contract — one responsibility and one set of guarantees.

**COMBUSTION ENGINEERING CORPORATION**

International Combustion Building  
200 Madison Avenue, New York, N. Y.

A SUBSIDIARY OF INTERNATIONAL COMBUSTION ENGINEERING CORPORATION



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## COMBUSTION ENGINEERING

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## EQUIPPED TO LEAD

You have dreams and the desire to equip yourself for sales engineering, production engineering or engineering design work in a given industry.

Perhaps you are interested in knowing who are the leaders in the fields of Milling and Grinding. A trip through the plants of the Cincinnati Milling Machine Company and our associate company, Cincinnati Grinders Incorporated, will convince you of this Leadership. You will remember:

- 1 — Welfare work.
- 2 — Spirit of cooperation.
- 3 — Character of the men from the top down.
- 4 — The well-equipped, clean and lighted shop and offices.
- 5 — The shop layout.
- 6 — Methods and supervision employed in the manufacture of our products.
- 7 — The chemical and physical laboratories which

are conducted to test and improve the quality of the product.

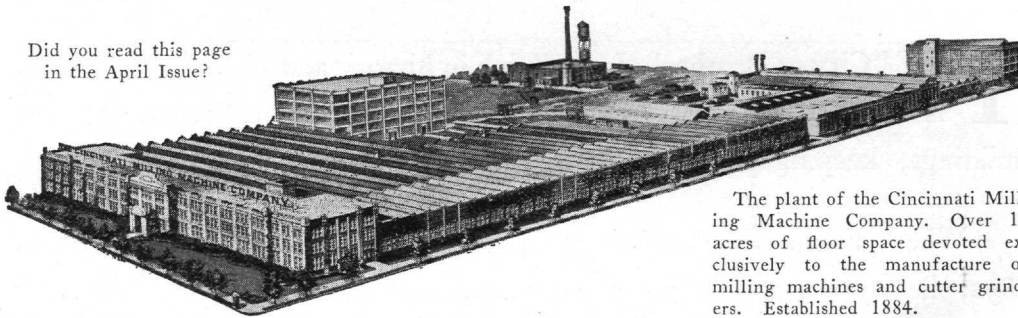
8 — The products, their use and wide range of application in the manufacture of other commodities.

9 — The large engineering, planning, tool design departments which design, tool up, and plan the manufacture of our product.

10 — The Engineering Service Department. Here many men are estimating, designing, and building special equipment to be supplied with Standard Cincinnati Millers.

Observation of those who are equipped to lead will broaden your vision and enable you to see OPPORTUNITY in their field.

Did you read this page  
in the April Issue?



The plant of the Cincinnati Milling Machine Company. Over 11 acres of floor space devoted exclusively to the manufacture of milling machines and cutter grinders. Established 1884.

The Cincinnati Milling Machine Company  
Cincinnati, Ohio

**CINCINNATI MILLERS**





*Aerial view of Philadelphia*

## Philadelphia---An "Otis Skyline" City

**T**HE "City of Brotherly Love," rich in history and Colonial tradition, is steadily growing skyward. Higher and higher reach its tall buildings, keeping pace with increasing land values.

When Elisha Graves Otis gave the world the first safe elevator in 1852, he made possible the constant upward growth of our cities, for without the safe and speedy elevator the skyscraper could not have been built. Thus the skylines of our great cities can truly be called "Otis Skylines."



# OTIS ELEVATOR COMPANY

OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD



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No. 7

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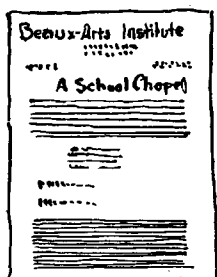
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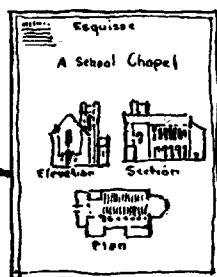
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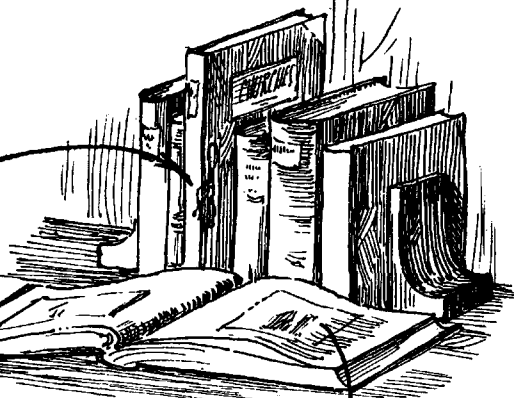
# THE SOLUTION OF AN ARCHITECTURAL DESIGN PROBLEM "A SCHOOL CHAPEL"



THE PROGRAM  
A statement of the problem.



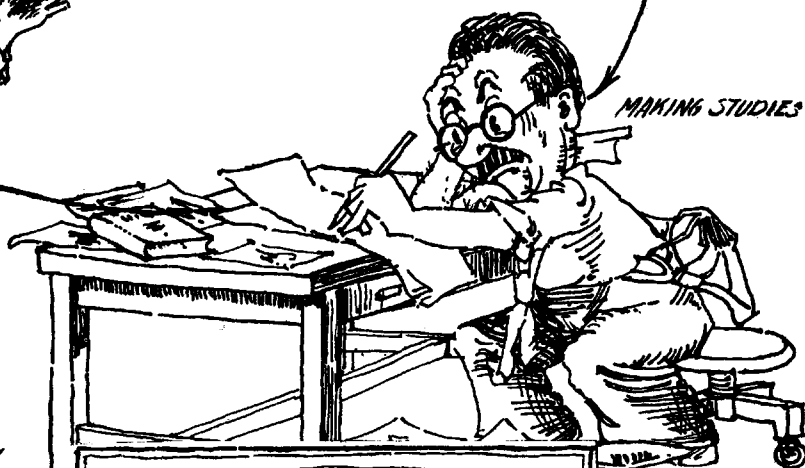
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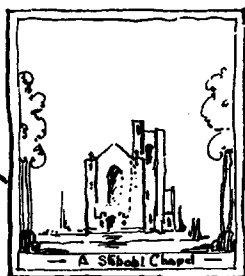
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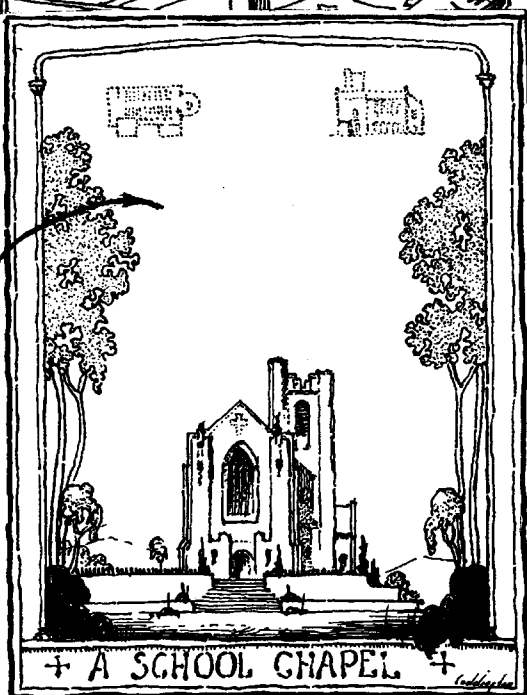
THE CRITIC AND CRITICISM



MAKING STUDIES



THE HALF SCALE RENDU



FULL SCALE RENDU

CODDINGTON